 Content analysis → analysing the content of secondary data by creating a code and sample method. Eg, every 2nd page, tallying the number of gender stereotypes. Thematic analysis → converts qualitative data into quantitative data by creating a category/code and tallying the number of times these appear within the data. Eg dream themes. 		Alternal relation Null hyp relation When c hypothe	Alternative hypothesis → A testable statement about the relationship / difference / association between 2+ variables. Null hypothesis → An assumption that there is no relationship / difference / association. Nothing is going on. When conducting research, we aim to reject our null hypothesis (Falsifiability)			 Directional → My hypothesis directly predicts the direction of the results (X will have a positive effect on Y) Non-directional → my hypothesis states there is a difference but doesn't state which way (X and Y will have a difference) One tailed → You're using a directional hypothesis. 	
RELIABILITY → how consistent is the data? Can it produce the same results on different occasions?		e TYPE 1 E	TYPE 1 ERROR → False positive. I've rejected the null hypothesis when I should have accepted it. You believe		Two-tailed → you're using a non-directional hypothesis.		
Inter-observer reliability \rightarrow When another observer repeats the test and compares their results with yours to see if you have high agreement (1) or low (0) this is a kappa score. To improve this score you can include/amend behaviour categories. Test-retest \rightarrow Giving the same group of PPs the same test at a different time and assessing the score similarity. This can be improved by making your test question detailed and specific. Standardisation \rightarrow to ensure that each procedure is robust and		t on. Eg, symptor TYPE 2 E accept there is pregna	you have found a genuine positive effect when there isn't on. Eg, a male being pregnant because they have all the symptoms. TYPE 2 ERROR → You fail to reject the null hypothesis (you accept it) and believe there isn't a negative effect when there is on. A pregnant female being told she's not pregnant because of other factors. SAMPLIING		 IV → What you're manipulating. The conditions/trials. DV → What you're measuring. It needs to be operationalised so it can be measured clearly. Confounding → A variable which can change the DV but can't always be controlled (mood) but can caused confusion in the results (time of day). Extraneous → Aspects which you try to control – time of day, light, temperature of room. 		
repeated consistently across trials. This will improve reliability.		Opportu most av	Opportunity → Use PPs that are the most convenient or most available. Eg, students in a school.			 JOURNAL REFERENCE Authors name, date, title of article, journal title, volume (issue number) BOOK REFERENCE Authors name, date, title of book, place of 	
VALIDITY → How accurate is your data? Are you measuring what you intended?		Randon Stratified a propo	Random → names/numbers out of a hat. Stratified → subgroups of the population are identified, and a proportionate amount is selected. Eg 2 from Y7, 2 from Y8				
different environments and achieve the same results.			Systematic \rightarrow Every 5 th , 7 th , 10 th person from a list of people.			publication, publisher.	
Mundane realism \rightarrow how realistic are the tasks to the real world. Eg counting backwards in 3s. Temporal \rightarrow the ability for the research results to be generalised to		g Eg a ph Volunte wait for	Eg a phonebook. Volunteer → Advertise in a newspaper/notice board and wait for people to volunteer.			DESIGN A STUDY QUESTION → Answer the BULLET POINTS and JUSTIFY your choices / KEEP IT SIMPLE.	
Population \rightarrow Can the research results be generalised to other samples of participants. Concurrent \rightarrow to compare your research results to other similar results in the field and assessing if they're similar findings. Face \rightarrow to extent in which the test measures what it claims to measure Eg, IQ test – intelligence or memory?		COUNTE Indeper Matche	EXPERIMENTAL DESIGN Repeated measures \rightarrow All PPs do each condition. BUT this could cause an ORDER EFFECT so we need to COUNTERBALANCE (ABAB or ABBA). Independent \rightarrow Separate groups do separate conditions and we need to RANDOMLY ALOCATE PPs to groups. Matched Pairs \rightarrow 2 groups of PPs who are matched on a			 DESCRIPTIVE STATISTICS Measure of central tendency provide averages or information about the 'middle' of a set of data: Mean – add all the data, divide by the number of values. Can 	
5 FEATURES OF A SCIENCE:	PEER REVIEW → Specialists	charac STUDY to	characteristic, typically the DV. It's best to conduct a PILOT STUDY to consider which variables need controlling. SINGLE BLIND → The PP is not aware of the aims of the research condition they are receiving so they can't seek cues or react. DOUBLE BLIND → The researcher and PP are not aware which condition the pp is receiving, so both researcher and PP can't react to cues or provide prompts.			 by the homber of values. Can only be used with ration and interval data. Mode - Most frequent data. Used with nominal data. Median - Middle values of an ordered list. Used with ordinal data. Measure of dispersion provides 	
 Empirical methods – observable and quantitative data. Objectivity – no bias or opinions involved. Replicability – does it produce 	scientific work produced by others to assess the quality and accuracy of their research. ETHICS - Can Do Can't Do With Pps	SINGLE BL research o or react. DOUBLE B condition can't read					
 the same results with different people? 4. Theory construction – general principals, laws or classifications can be made. 5. Hypothesis testing – test and refine / theory and test. 	 TYPES OF DATA: Primary / Secondary / Qualitative / Quantitative / Meta-analysis • Nominal → named categories • Ordinal → data that can be ordered. • Interval → Data with equal measurements 		Testing difference (unrelated) Independent Groups	Testing difference (related) Repeated Measures / Matched Pairs	Testing association or correlation	 information about the spread of data. Range – the distance between the top and bottom values in data. Standard deviation – precise measure of spread which measures the average distance between each data item above and below the mean 	
		Nominal	Chi-Squared test	Sign test	Chi-Squared test		
Falsifiability \rightarrow always aiming to prove your hypothesis wrong.		Ordinal	Mann-Whitney	Wilcoxon	Spearman's rho.		
can change over time due to a	in-between each value and that can go	Interval	Unrelated t-Test	Related t-Test	Pearson's r		
paraaigm shill.	below 0.		(parametric)	(parametric)	(parametric)		